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In Italy has just appeared a new mathematical journal issued at Città di Castello by the publisher, S. Lapi, to whom the annual subscription, 12 francs, should be sent. It is a monthly magazine called *Le Matematiche*, under the direction of Prof. C. Alasia with a board of collaborators among whom the English language is represented by G. B. Halsted of Austin, Texas, to whom communications may be sent, which will appear in Italian. On the Editorial Board may also be noted the Russian, Vasiliev, and one of the greatest of living mathematicians, Poincaré. The first number, February, 1901, contains the last thing ever written for publication by the illustrious Hermite, dated January, 1901, on the 14th of which month he died. This number honors THE AMERICAN MATHEMATICAL MONTHLY by reproducing from it in Italian an interesting note. A new and very suggestive department is introduced under the heading, "Subjects for Research."

## *BOOKS AND PERIODICALS.*

*Elements of Physics.* By Henry A. Rowland, Ph. D., LL. D., Professor of Physics, and Director of the Physical Laboratory in Johns Hopkins University, and Joseph S. Ames, Ph. D., Professor of Physics and Sub-Director of the Physical Laboratory in Johns Hopkins University. 8vo, cloth, xiii+263 pages. Price, $1.00. New York and Chicago: The American Book Company.

This text-book is designed to meet the requirements of high schools and normal schools in the subject of Physics and it is based on the principle that the object of physics is two-fold, viz., (1) to train the student in the powers of observation and accurate description, and (2) to cultivate the habits of exact thought and statement. Great emphasis has been put on those points in the study of the subject which are necessary for the mental training of the student and which will make the more elaborate discussions of the subject simpler when the student comes to them. The reputation of its authors assures the highest authority of statement and great care and thought in its preparation.

B. F. F.

*The Common Sense of Commercial Arithmetic.* By George Hall, Principal of Petersburg Academy, Petersburg, Va. 8vo. Cloth, xii+187 pages. Price, 60 cents. New York: The Macmillan Co.

This book is designed to give pupils a definite idea of the principles of common sense underlying the subject of Arithmetic common to commercial life. Each subject is clearly and carefully treated, many examples solved in complete detail, and many original problems of practical occurence are proposed for solution. The author's method of presenting percentage is good and his ideas on the subject are sound. B. F. F.

*Non-Euclidean Geometry.* By Henry Parker Manning, Ph. D., Assistant Professor of Mathematics in Brown University. 8vo, cloth, 94 pages. Boston and Chicago: Ginn & Co.

This is the first attempt in America to present the Non-Euclidean Geometry in a form suitable for use in schools and colleges. The author lays no claim to originality as to subject matter, as much of the work came to the author through the translations of Dr. Halsted. We believe this little book will do much towards popularizing the subject and thus will bring it within the comprehension of teachers of Geometry. In our next issue Dr. Halsted will give an extended review of the work. B. F. F.

*The Free Expansion of Gases.* Memoirs by Gay-Lussac, Joule ,and Joule and Thompson. Translated and edited by J. S. Ames, Ph. D., Professor of Physics in Johns Hopkins University. 8vo. cloth, 106 pages. Price, $0.75. New York and Chicago: The American Book Co.

This is one of the Series of Memoirs on Physical Subjects, the publication of which was undertaken a few years ago by Harper & Bros. The Series comprises (1) Prismatic and Diffraction Spectra, (2) The Free Expansion of Gases, (3) The Röntgen Rays, (4) The Modern Theory of Solution, and (5) The Laws of Gases. These important memoirs should be in the hands of every teacher of Physics. B. F. F.

*Theory of Thought and Knowledge.* By Borden P. Bowne, Professor of Philosophy in Boston University. Large 8vo. cloth. xiii+389 pages. Price, $1.50. New York and Chicago: The American Book Co.

This work is written by one of America's ablest thinkers. Professor Bowne deals with the subtilest problems of philosophy in a masterly way. This book consists of two parts; the first part, covering 263 pages, deals with *Theory of Thought* and the second part with the *Theory of Knowledge.* This book is invaluable to the student of Philosophy. B. F. F.

*Le Mathematiche. Pure ed Applicate.* Periodico mensile di matematiche pure ed applicate, superioai ed elementari, ad uso dell' isturzione media e superore diretto dal Prof. Cristoforo Alasia, con la Collaborazione dei piu illustri Scienziati Italiani e Stranieri.

This monthly journal has just been started, the February number being the first issue. Professor Cristoforo Alasia, the editor, has a large number of very able mathematicians, both native and foreign, to assist him, among whom is Dr. Halsted, who represents America. The MONTHLY wishes this journal the greatest success. B. F. F.

*Mathemaitsch-naturwissenschaftliche Mitteilungen* be gründet von Dr. O. Böklen, im auftrag des mathematisch-naturwissenschaftlichen Vereins in Württemberg herausgegeben von Dr. A. Schmidt, Dr. A. Haas, und Dr. E. Wölffing.

Inhalt, Januar, 1901. O Böklen, von Dr. E. Wölffing; Vereinsnachrichten; Die nicht-euclidesche Geometrie und die Trigonometrie auf den Flächen von konstantem Krümmungsmass, von Dr. K. Kommerell.

*The Mathematical Messenger*, Edited and Published by G. H. Harvill, A. M., Athens, Texas.

After a long period of suspension, this journal again makes its appearance. It is published bi-monthly and is devoted chiefly to solutions of problems. The price of the journal is two dollars per year. B. F. F.

*Periodico di Mathematica* for January and February contains an extensive discussion of the "last theorem of Fermat."

*The Mathematical Gazette.* Edited by W. J. Greenstreet, M. A. with the coöperation of F. S. McCauley, M. A., D. Sc., and others.

This magazine is published bi-monthly and contains articles, correspondence notes, reviews of books, and problems and solutions. B. F. F.